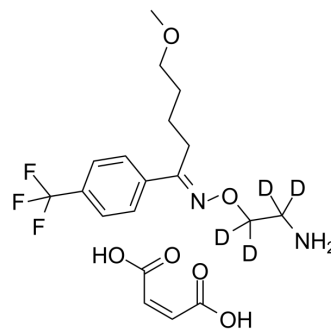


Fluvoxamine-d4 maleate

Cat. No.:	HY-B0103AS1
Molecular Formula:	C ₁₉ H ₂₁ D ₄ F ₃ N ₂ O ₆
Molecular Weight:	438.43
Target:	Serotonin Transporter
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fluvoxamine-d4 (DU-23000-d4) maleate is the deuterium labeled Fluvoxamine maleate. Fluvoxamine maleate (DU-23000 maleate) is an antidepressant which functions pharmacologically as a selective serotonin reuptake inhibitor.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Ginsburg, B.C., J.W. Pinkston, and R.J. Lamb, The potency of fluvoxamine to reduce ethanol self-administration decreases with concurrent availability of food. *Behav Pharmacol*, 2012. 23(2): p. 134-42.
- [3]. Claassen, V., et al., Fluvoxamine, a specific 5-hydroxytryptamine uptake inhibitor. *Br J Pharmacol*, 1977. 60(4): p. 505-16.
- [4]. Escalona, R., et al., Fluvoxamine treatment in veterans with combat-related post-traumatic stress disorder. *Depress Anxiety*, 2002. 15(1): p. 29-33.

Caution: Product has not been fully validated for medical applications. For research use only.

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